

Amendments to the Claims:

1-10. (Cancelled)

11. (Currently amended) An isolated biologically active beta-secretase polypeptide selected from the group consisting of:

- a) the polypeptide of SEQ ID NO: 4;
- b) a polypeptide having one to fifty conservative amino acid changes as compared with the polypeptide of SEQ ID NO: 4, wherein said polypeptide ~~includes~~ comprises the transmembrane domain; and
- c) the polypeptide encoded by the DNA vector insert of ATCC Deposit No. 207159.

12. (Currently amended) An isolated biologically active beta-secretase polypeptide encoded by a nucleic acid molecule selected from the group consisting of:

- a) ~~a nucleic acid molecule~~ the polynucleotide sequence as set forth in SEQ ID NO:1;
- b) ~~a nucleic acid molecule~~ polynucleotide encoding the polypeptide of SEQ ID NO: 4;
- c) ~~a nucleic acid molecule~~ the polynucleotide of the DNA vector insert in ATCC deposit No. 207159; and
- d) ~~a nucleic acid molecule~~ polynucleotide encoding one to fifty conservative amino acid substitutions as compared with the polypeptide of SEQ ID NO:4, wherein said polypeptide ~~includes~~ comprises the transmembrane domain.

13. (Original) An isolated polypeptide having the amino acid sequence of SEQ ID NO: 4.

14. (Currently amended) An isolated biologically active polypeptide selected from the group consisting of: amino acids 45-501; amino acids 46-501; and amino acids 62-501.

15-21. (Cancelled)

22. (Previously presented) The isolated biologically active beta-secretase polypeptide of claim 11, wherein the polypeptide is the polypeptide of SEQ ID NO: 4.

23. (Currently amended) The isolated biologically active beta-secretase polypeptide of claim 11, wherein the polypeptide has one to fifty conservative amino acid changes as compared with the polypeptide of SEQ ID NO: 4, wherein said polypeptide ~~includes~~ comprises the transmembrane domain.

24. (Previously presented) The isolated biologically active beta-secretase polypeptide of claim 11, wherein the polypeptide is encoded by the DNA vector insert of ATCC Deposit No. 207159.

25. (Currently amended) The isolated biologically active beta-secretase polypeptide of claim 12, wherein the polypeptide is encoded by ~~a nucleic acid molecule~~ the polynucleotide sequence ~~as set forth in~~ SEQ ID NO:1.

26. (Currently amended) The isolated biologically active beta-secretase polypeptide of claim 12, wherein the polypeptide is encoded by ~~a nucleic acid molecule~~ polynucleotide encoding the polypeptide of SEQ ID NO: 4.

27. (Currently amended) The isolated biologically active beta-secretase polypeptide of claim 12, wherein the polypeptide is encoded by ~~a nucleic acid molecule~~ the polynucleotide of the DNA vector insert in ATCC deposit No. 207159.

28. (Currently amended) The isolated biologically active beta-secretase polypeptide of claim 12, wherein the polypeptide is encoded by ~~a nucleic acid molecule~~ polynucleotide encoding one to fifty conservative amino acid substitutions as compared with the polypeptide of SEQ ID NO:4, wherein said polypeptide ~~includes~~ comprises the transmembrane domain.